

# Claims

- [c1] What is claimed is:
- 1.A scanner comprising:  
a light source for generating light;  
a reflective piece including one protrusion for reflecting the light from the light source;  
a lens for transmitting the light from the light source and the reflective piece; and  
a sensor for detecting the light from the lens.
  - [c2] 2.The scanner of claim 1 wherein the protrusion is located at the center of the reflective piece for reflecting part of the light from the light source to two sides of the light source.
  - [c3] 3.The scanner of claim 1 wherein the reflective piece further comprises a dark section decreasingly distributed from the center to the two sides of the reflective piece for absorbing part of the light from the light source.
  - [c4] 4.The scanner of claim 3 wherein the reflective piece comprises two protrusions located at two sides of the dark section for reflecting the part of the light from the light source to the two sides of the light source.

- [c5] 5.The scanner of claim 1 wherein the protrusion of the reflective piece is triangular.
- [c6] 6.The scanner of claim 1 wherein the protrusion of the reflective piece is arc-shaped.
- [c7] 7.The scanner of claim 1 wherein the scanner is a paper feed scanner.
- [c8] 8.The scanner of claim 1 wherein the scanner is a flatbed scanner.
- [c9] 9.The scanner of claim 1 wherein the light source is a fluorescent tube.
- [c10] 10.The scanner of claim 1 wherein the sensor is a charge coupled device (CCD).